

US EPA RECORDS CENTER REGION 5



465800

Monthly Oversight Report 19
ACS NPL Site
Griffith, Indiana
June 29, 2002 - August 2, 2002



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

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8/29/02

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526
BVSPC File C.3
August 14, 2002

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report
No. 19 for July 2002

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 19 for July 2002 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 19
ACS Superfund Site WA57, 46526.238

Reporting Period: Month of July (June 29, 2002 - August 2, 2002)

BVSPC O/S Dates: July 11, 18, 23, 25, and 30, and August 1, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
USEPA	1	
IDEM	2	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Environ	1	PRP Group Consultant
Austgen	1	Electrical Contractor
Ryan Construction	1	General Contractor
Heritage Industrial Services	3	OFCA Yard Piping Contractor
Patrick Engineering	1	OFCA Clay Compaction Testing
Midwest Environmental, Inc.	7	OFCA Cover Maintenance Contractor
Great Lakes Testing	1	Clay Compaction Testing
Eagle Services	3	OFCA ISVE Well Cleaning Contractor
Area Survey	2	Surveyors
D&G	2	Surveyors
Simalabs	2	GWTP Sampling Contractor and Laboratory
Environmental Contractors of Illinois	2	OFCA Engineered Cover Contractor and ONCA Interim Cover Bidder
Koester Environmental Services	1	ONCA Interim Cover Bidder
Hard Hat	1	ONCA Interim Cover Bidder
EQ	1	ONCA Interim Cover Bidder
Onyx	1	ONCA Interim Cover Bidder

Construction Activities

Major Activities:

- Heritage Industrial Services removed and recompact the backfill from the Off-Site Containment Area in-situ soil vapor extraction system piping and pressure tested the yard piping.
- Patrick Engineering performed compaction and moisture testing of the recompact yard piping trenches.
- Midwest Environmental, Inc. repaired the erosional damage to the Off-Site Containment Area cover and relocated the PCB-impacted sediments from the On-Site Containment Area firepond to swale 5 in the Off-Site Containment Area.
- Midwest Environmental, Inc. damaged the steel conduit carrying a fiber optic cable in the Off-Site Containment Area.
- Great Lakes performed compaction and moisture testing of the Off-Site Containment Area cover.
- Area Survey surveyed the On-Site Containment Area firepond after the PCB-impacted sediments were relocated.
- Eagle Services removed sediment from the Off-Site Containment Area in-situ soil vapor extraction wells.
- Austgen replaced a memory card in the groundwater treatment plant and reconnected the control panel to extraction well EW-12.
- MWH replaced the gear shaft for the lamella clarifier sludge rake.
- Simalabs collected compliance samples for the groundwater treatment plant and the thermal oxidizer.
- Montgomery Watson Harza held the site walk-through meeting for the On-Site Containment Area interim cover.
- Montgomery Watson Harza held weekly construction coordination meetings on July 11, 18, and 25, and August 1, 2002. The construction coordination meeting scheduled for July 4, 2002, was cancelled because of the holiday.

Activities Performed:

Heritage Industrial Services (HIS) mobilized to the site on July 8, 2002, and began removing the clay backfill from the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system yard piping trenches. HIS removed the clay with an excavator and damaged the HDPE yard piping to ISVE wells SVE-01 and SVE-21. Black & Veatch Special Projects Corp. (BVSPC) observed HIS remove the damaged section of piping and weld replacement piping to the existing yard piping and flange. HIS added moisture to the excavated clay and backfilled and recompact the trenches with a vibratory smooth drum roller. Patrick Engineering performed compaction and moisture testing of the trenches. Once the trenches were backfilled, HIS performed pressure testing of the yard piping and placed bentonite at the yard piping saddle connections at the wells. HIS demobilized from the site on July 19, 2002.

Midwest Environmental, Inc. (MEI) repaired the erosional damage to the OFCA cover and relocated the PCB-impacted sediments from the On-Site Containment Area (ONCA) firepond to OFCA swale 5. MEI

removed the interim clay cover from swale 5 and filled the swale with the PCB-impacted sediments. MEI completed filling the swale and replacing the clay cover on July 31, 2002. MEI compacted the clay cover in two 6-inch-thick lifts with sheepsfoot and vibratory smooth drum rollers. Great Lakes Testing performed the compaction and moisture testing of the clay cover. MEI also installed additional manrings on extraction wells EW-12 and EW-13 to raise their elevation above final grade.

MEI damaged the steel conduit that carries the fiber optic cable from the OFCA blower shed to the groundwater treatment plant (GWTP). Montgomery Watson Harza (MWH) reported that it did not lose communication with the blower shed, indicating that the fiber optic cable was not damaged. MWH decided not to replace the conduit.

Eagle Services removed sediments from the OFCA ISVE wells by jetting water through the screened portion of the well and vacuuming out the sediments. MWH reported that it was able to establish air flow from nine of the remaining 10 ISVE wells that had not been proved-out. MWH reported that it is unable to establish flow in OFCA ISVE well SVE-03 and that it will isolate the well and attempt to establish flow. If MWH is unsuccessful, it reported that it will investigate other means to clear out the well. MWH continued to operate the OFCA ISVE system, proving out the nine remaining wells.

MWH reported that the OFCA ISVE system stopped running on July 3, 2002, because of a wiring short in the thermal oxidizer flame management system. Ryan Construction and Austgen replaced the conduit and wiring that connected the flame management system at the thermal oxidizer with the programmable logic controller. Simalabs collected the eighth and final compliance sample from the OFCA ISVE thermal oxidizer on July 25, 2002. MWH reported that the first sample collected before the welds were replaced on the thermal oxidizer will be included as a compliance sample. BVSPC observed that corrosion was developing on the welds for the piping from the thermal oxidizer to the scrubber in the GWTP. MWH reported that it will have Ryan Construction disassemble the scrubber and repair the damage. Ryan Construction will also inspect the scrubber sump and packing material.

Area Survey re-surveyed the ONCA firepond area after the PCB-impacted sediments were removed. Approximately 3,800 CY of sediment was removed from the ONCA firepond area. MWH issued the Request for Bid for the ONCA interim cover and held the site walk-through meeting on August 1, 2002.

MWH reported that Austgen replaced the memory card in the GWTP computer. MWH encountered temporary operational difficulties with the replacement memory card. MWH also reported that the gear shaft on the sludge rake in the lamella clarifier locked up on July 3, 2002. MWH continued to operate the GWTP and replaced the gear shaft on July 30, 2002. Austgen reconnected the control panel at EW-12 on August 2, 2002. MWH operated the GWTP throughout the reporting period, pulling water from all available sources. MWH reported that it will have heat transfer plates installed in tank T-2 and will insulate the sludge tank and equalization tank next month.

Attached are BVSPC weekly reports No. 70 through 74, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on July 11, 18, 23, 25, and 30, and August 1, 2002. BVSPC's crew attended four weekly construction

coordination meetings at the site on July 11, 18, and 25, and August 1, 2002. MWH cancelled the weekly construction coordination meeting scheduled for July 4, 2002, because of the holiday.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- BVSPC observed MWH replace the gate valve at SVE-14 on July 18, 2002 .

Upcoming Activities:

- MWH to prove-out the remaining OFCA ISVE wells and establish flow from SVE-3.
- Ryan Construction to disassemble the OFCA ISVE system scrubber to evaluate the corrosion.
- ECI to begin OFCA engineered cover construction on August 12, 2002.
- MWH to install heat transfer plates in tank T-2 and insulate the sludge and equalization tanks.

Signature: Leigh Peters

Date: August 6, 2002

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Weekly Oversight Summary Report No. 70
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 1, 2002

BVSPC O/S Dates: Canceled because of limited site activities and the Fourth of July holiday.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	1	Respondent's General Contractor
Black & Veatch Special Projects Corp.	0	USEPA Oversight Contractor
Great Lakes Testing	1	OFCA Clay Compaction Testing
Austgen	1	Electrical Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza reported that the Off-Site Containment Area in-situ soil vapor extraction system stopped operating because of a wire short in the thermal oxidizer flame management system.
- Montgomery Watson Harza reported that the groundwater treatment plant was not operating because the mixer shaft in the lamella clarifier locked up.
- Austgen replaced a memory card in the groundwater treatment plant computer that caused system control errors.
- Midwest Environmental, Inc. continued rolling the Off-Site Containment Area clay cover repair areas.
- Great Lakes Testing re-tested the repaired areas of the Off-Site Containment Area clay cover.
- Montgomery Watson Harza cancelled the weekly construction coordination meeting because of the Fourth of July Holiday.

Activities Performed:

Montgomery Watson Harza (MWH) reported that the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system stopped running on July 3, 2002, because of a wiring short in the thermal oxidizer flame management wiring. MWH reported that the conduit that contains the wiring for the flame management system between the programmable logic controller and the thermal oxidizer runs underneath the thermal oxidizer. MWH speculated that the temperature of the thermal oxidizer damaged the wiring and caused a short in the system. MWH expected to have Austgen and Ryan Construction repair the wiring next week.

MWH reported that Midwest Environmental, Inc. rolled the OFCA clay cover in the areas where the erosional damage was repaired. MWH also reported that Great Lakes Testing was on-site July 5, 2002, in order to re-test the compaction and moisture of the repaired cover. MWH reported that the repairs to the cover met its compaction and moisture requirements. MWH reported that MEI had completed its maintenance activities to the OFCA cover, except for raising the manrings of extraction wells EW-13 and EW-12.

MWH reported that Austgen replaced the memory card in the groundwater treatment plant (GWTP) computer. MWH also reported that it encountered problems operating the GWTP with the replacement card. Austgen is scheduled to again replace the card. MWH reported that the GWTP was not operating because the lamella clarifier was not operating properly. MWH reported that the mixer shaft locked inside of the clarifier and may need to be replaced. MWH stopped operating the GWTP on Wednesday, July 3, 2002.

MWH reported that Heritage Industrial Services (HIS) is scheduled to mobilize to the site on July 8, 2002, and will begin repair work to the OFCA ISVE yard piping backfill on July 9, 2002. MWH reported that HIS will be digging out the backfilled material, re-wetting the clay, and recompacting the clay into the trenches.

MWH cancelled the weekly construction coordination meeting because of the Fourth of July holiday.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH to order a replacement gate valve for SVE-14.

Upcoming Activities:

- MWH to prove out the remaining OFCA ISVE wells.
- MWH to repair the lamella clarifier.
- Ryan Construction and Austgen to repair the thermal oxidizer flame management wiring.
- Austgen to replace memory card for the GWTP computer.
- MEI to raise the manrings at EW-12 and EW-13.
- HIS to remove and recompact the backfill for the OFCA ISVE yard piping.

Signature: Leigh Peters

Date: July 8, 2002

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the saddles installed on the ISVE wells. Montgomery Watson Harza (MWH) reported that it will instruct HIS to re-pressure test the yard piping once the backfill re-compaction activities are complete.

BVSPC observed Patrick Engineering perform the nuclear density compaction and moisture testing of the re-compacted and backfilled ISVE yard piping trenches. MWH's requirements for the backfill are 95% compaction and optimum to optimum + 2% moisture content. Patrick Engineering followed HIS as trenches were backfilled to ensure that the clay requirements were being met. If an area did not pass the compaction and moisture requirements, HIS re-compacted and/or added moisture to the area. MWH reported that it was requiring 1 test per 50-feet of trench length, approximately 40 tests. MWH also reported that it expected HIS to be finished with its work by the end of next week.

MWH resumed operating the OFCA ISVE system on Thursday, July 11, 2002, after Ryan Construction and Austgen repaired the flame management system. MWH will continue to prove-out the remaining group of ISVE wells. MWH also collected a compliance sample on Friday, July 12, 2002. MWH reported that it was likely to not include the initial sampling of the system as a compliance sample because of the changes that had been made to the thermal oxidizer after the sample was collected.

MWH reported that Austgen replaced the memory card in the groundwater treatment plant (GWTP) computer. MWH resumed operating the GWTP, bypassing the lamella clarifier. MWH reported that it would repair or replace the sludge rake and gears in the clarifier. MWH also reported that Ryan Construction installed piping in the GWTP to enable MWH to have more flexibility with where it can pump the treated effluent to aid in site activities. This week, MWH was pumping effluent to a holding tank on the OFCA near the blower shed in order for HIS to use the water to add moisture to the clay.

MWH reported that it plans to relocate approximately 4,000 CY of the PCB-contaminated sediment stockpiled in the ACS On-Site Containment Area (ONCA) firepond area to the OFCA. MWH reported that it will remove the interim clay cover from swale 5 on the OFCA and place the sediments underneath the cover, filling in the swale. MWH reported that trucks will move the sediment from the firepond area, leave the ACS facility through the south gate, cross the railroad tracks, and enter the OFCA through the north gate. MWH also reported that it will establish traffic lanes on the OFCA cover, through the ISVE well field to minimize the damage to the cover. MWH reported that it plans to begin these activities during the week of July 22, 2002.

MWH reported that it finalized the OFCA engineered cover contract with Environmental Contractors of Illinois (ECI). MWH reported that ECI will begin submitting documents and is scheduled to start work on the OFCA engineered cover on August 12, 2002.

MWH held the weekly construction coordination meeting on July 11, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH to order a replacement gate valve for SVE-14.

Upcoming Activities:

- MWH to prove out the remaining OFCA ISVE wells.
- MWH to repair the lamella clarifier.
- MEI to raise the manrings at EW-12 and EW-13.
- HIS to complete re-compacting the backfill for the OFCA ISVE yard piping.
- MWH to relocate PCB-contaminated sediments to the OFCA.
- ECI to begin OFCA engineered cover construction on August 12, 2002.

Signature: Leigh Peters

Date: July 15, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR July 11, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 11, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

Off-Site ISVE System

Off-Site Final Cover

Looking Ahead

Week of...	Task
July 1	<ul style="list-style-type: none">• GWTP/SVE system operation• Off-Site cover maintenance
July 8	<ul style="list-style-type: none">• GWTP/SVE system operation• Off-Site cover maintenance

Next Weekly Construction Meeting

- Thursday, July 25, 2002

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JULY 11, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 11, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Lee Orosz, MWH
Leigh Peters, BVSPC
Robert Adams, MWH
Peter Vagt, MWH (via phone)
Todd Lewis, MWH (via phone)
Kevin Adler, U.S. EPA (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on June 27. Heritage is currently on site to finish re-compaction efforts associated with installation of the ISVE yard piping in the Off-Site Area. Heritage is working under the same health and safety procedures that they followed during their initial piping installation work.

Groundwater Treatment Plant (GWTP) Status

The GWTP was temporarily shutdown beginning on July 2 to work on the central processing unit (CPU) of the system's programmable logic controller (PLC). The system was kept off-line during the Fourth of July weekend but was brought back on line earlier this week. The lamella clarifier is currently being bypassed while it is undergoing maintenance.

The fourth round of compliance samples for the catalytic oxidizer and scrubber are scheduled to be collected on July 12. This will be the fourth of the eight sampling rounds required in the Performance Standard Verification Plan (PSVP).

Piping is currently being installed to distribute effluent of the GWTP to the Site and Off-Site Areas for use in dust control during cover installation.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system was temporarily shutdown beginning on July 2 due to the work on the GWTP's CPU and maintenance activities for the thermal oxidizer. The maintenance activities included rerouting some of the wiring on the unit for safety reasons. The ISVE system was brought back on line on July 11 and extraction well prove-out is continuing.

The fourth round of compliance samples for the thermal oxidizer and scrubber are scheduled to be collected on July 12. This will be the fourth of the eight sampling rounds required in the Performance Standard Verification Plan (PSVP).

Heritage is on site to finish compaction of the clay cover over the ISVE yard piping. Two of the ISVE yard pipes were damaged by Heritage. These pipes will be repaired and all of the pipes will be pressure tested after the clay compaction activities are completed.

Off-Site Area Final Cover

Environmental Contractors of Illinois (ECI) has been awarded the subcontract to install the final cover and a contract has been assigned. ECI is currently developing the required submittals and is expected to submit them to MWH in the next week or two. Mobilization is scheduled for August 12 and the fieldwork is anticipated to last four to six weeks.

On-Site Area Interim Cover

MWH will begin moving the PCB-impacted sediments from the On-Site Area to the Off-Site Area on July 22. The sediments will be used to fill Swale 5 and be placed under the Off-Site Area final cover as detailed in the PCB-Impacted Soils Excavation Work Plan. The anticipated truck route is through the South ACS gate, over the railroad tracks, and into the Off-Site Area. The work will be performed by Midwest Environmental and is anticipated to last approximately four days.

Looking Ahead

Week of...	Task
July 15	<ul style="list-style-type: none">• GWTP and ISVE system operation/monitoring/sampling• Heritage to continue clay compaction in Off-Site Area• Construction meeting on July 18
July 22	<ul style="list-style-type: none">• Begin sediment replacement from the On-Site Area to Off-Site Area• U.S. EPA site visit on July 23• Construction meeting on July 25

Next Weekly Construction Meeting

- The next meeting is schedule for Thursday, July 18, 2002.

RAA/PIV/RAA

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Weekly Oversight Summary Report No. 72
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 15, 2002

BVSPC O/S Dates: July 18, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
USEPA	1	
IDEM	2	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Heritage Industrial Services	3	OFCA Yard Piping Contractor
Environmental Contractors of Illinois	2	OFCA Engineered Cover Contractor
D&G	2	Surveyors
Area Survey	2	Surveyors
Ryan Construction	1	General Contractor
Austgen	1	Electrical Contractor
Simalabs	2	GWTP Sampling Contractor and Laboratory

Construction Activities

Major Activities:

- Heritage Industrial Services completed pressure testing the Off-Site Containment Area in-situ soil vapor extraction system yard piping.
- Montgomery Watson Harza continued to operate the Off-Site Containment Area in-situ soil vapor extraction system.
- Environmental Contractors of Illinois performed a site walk-through of the Off-Site Containment Area in preparation for the engineered cover installation.
- D&G surveyed the root-zone material stockpiled on the Off-Site Containment Area cover.
- Area Survey staked the locations of the fill to be removed from the On-Site Containment Area firepond area and placed underneath the Off-Site Containment Area engineered cover.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Heritage Industrial Services (HIS) began pressure testing the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system yard piping on July 15, 2002. Montgomery Watson Harza (MWH) reported that it evacuated the lines prior to HIS conducting the pressure testing. HIS completed pressure testing on July 19, 2002, and began placing the bentonite seal around the saddle connection to the yard piping at the wells. HIS completed its activities and demobilized from the site on July 19, 2002.

MWH continued to operate the OFCA ISVE system, alternating the wells as necessary for HIS to complete the pressure testing. MWH reported that Austgen knocked the scrubber reservoir pressure transducer off on Tuesday, July 16, 2002. MWH reported that the brine solution escaped from the reservoir and was contained in the floor sump. Austgen replaced the pressure transducer and MWH resumed operation of the OFCA ISVE system. Simalabs collected the compliance sample for the catalytic oxidizer and the thermal oxidizer on July 18, 2002. MWH is expected to complete proving-out the remaining ten ISVE wells next week.

Environmental Contractors of Illinois (ECI) visited the site to assess the OFCA interim cover. D&G, surveyors subcontracted by ECI, surveyed the root-zone material stockpiles on the OFCA. ECI is scheduled to begin construction activities on the OFCA engineered cover on August 12, 2002. MWH reported that it will hold a health and safety kick-off meeting with ECI on August 12, 2002, and will reinstate the weekly health and safety meetings while ECI is on-site.

Area Survey staked the locations where Midwest Environmental, Inc. (MEI) will remove PCB-impacted sediments from the stockpile in the On-Site Containment Area (ONCA) firepond area. Area Survey also staked the extent of the OFCA interim cover that will be removed in order for MEI to place the sediments underneath the cover, filling swale 5. MEI will begin removing the cover on July 22, 2002. MWH anticipates that the moving of the sediment will not begin until July 23, 2002. MWH reported that MEI will monitor the dust generated moving the sediments and will monitor the breathing space in the OFCA area when the interim cover is pulled back for the placement of the sediments. MWH has not determined where the clay removed from swale 5 will be staged nor how much of the original materials underneath the cover will be exposed during these activities. MWH expects this work to be completed in one week. MEI will also raise the manrings for EW-13 and EW-12 next week.

MWH reported that it is operating the groundwater treatment plant at 30 gpm and extracting water from all available sources. MWH reported that the sludge rake gear shaft for the lamella clarifier is being repaired and will be re-installed next week. Currently, MWH is operating the lamella clarifier, however, the sludge rake is not functioning.

MWH held the weekly construction coordination meeting on July 18, 2002.

Topics of Concern:

- MWH damaged the gate valve to the OFCA ISVE well SVE-14.
- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- BVSPC observed MWH replace the gate valve at SVE-14 on July 18, 2002.

Upcoming Activities:

- MWH to prove-out the remaining OFCA ISVE wells.
- MWH to repair the gear shaft for the lamella clarifier sludge rake.
- MEI to raise the manrings at EW-12 and EW-13 and relocate PCB-contaminated sediments to the OFCA.
- HIS to complete OFCA ISVE yard piping activities.
- ECI to begin OFCA engineered cover construction on August 12, 2002.

Signature: Leigh Peters

Date: July 22, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JULY 18, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 18, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

Off-Site ISVE System

Off-Site Final Cover

On-Site Interim Cover

Looking Ahead

Week of...	Task
July 29 ²²	<ul style="list-style-type: none">• GWTP/SVE system operation• Begin Sediment Relocation
August 5 ^{July 29}	<ul style="list-style-type: none">• GWTP/SVE system operation•

Next Weekly Construction Meeting

- Thursday, July 25, 2002

Name	Company	Fax Number
Peter Vagr	MWH	630 836-8959
ROB ADAMS	MWH	630-836-8959
TOM TINES	MWH	
Sean Grady	IDEM (until 7/19/02)	
Prabhakar Kasarabha	IDEM	317-234-0352 Telephone 317-234-0428 - fax
TRAVIS KLINGFORTH	MWH	
Kevin Adler	USEPA	312-353-5541
Ligh Peters	BUSPC	312-346-4781
CHRIS DALY	MWH	(630)836-8959
TODD LEWIS	MWH (via phone)	

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JULY 18, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 18, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Robert Adams, MWH
Peter Vagt, MWH
Chris Daly, MWH
Travis Klingforth, MWH
Todd Lewis, MWH (via phone)
Kevin Adler, U.S. EPA
Prabhakar Kasarabada, IDEM
Sean Grady, IDEM
Leigh Peters, BVSPC

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on July 11. Midwest Environmental, Inc. (MEI) will begin work during the week of July 22 to relocate a portion of the PCB-impacted soil currently stored in the Fire Pond to swale 5 in the Off-Site Area. A kickoff and health and safety meeting, scheduled for July 23, will be conducted prior to beginning the work of transporting the impacted material. A truck transportation route will be clearly cordoned off. MEI will be performing work using the health and safety plan they have already created for similar work done previously at the Site.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently running at approximately 30 gallons per minute. Water is being brought in from all barrier wall extraction wells in operation except EW-12. The outer casing of EW-12 is being raised so that it will meet the final grade after the completion of the final cover.

The next compliance samples for the catalytic and thermal oxidizers and scrubbers are scheduled to be collected on July 18. This will be the seventh of the eight sampling rounds required in the Performance Standard Verification Plan (PSVP).

Piping has been installed to distribute treated effluent from the GWTP to the On-Site and Off-Site Areas for use in dust control during cover installation.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system is running well this week and 18 wells are currently on-line. The extraction well prove-out process is continuing and only ten wells remain to be tested.

Heritage completed compaction of the clay cover over the ISVE yard piping on July 12. Two of the ISVE yard pipes were damaged by Heritage. These pipes have been repaired and the pipes are being pressure tested again.

Off-Site Area Final Cover

Environmental Contractors of Illinois (ECI) has been awarded the subcontract to install the final cover and a contract has been assigned. ECI is currently developing the required submittals and is expected to submit them to MWH in the next week or two. Mobilization is scheduled for August 12 and the fieldwork is anticipated to last four to six weeks.

On-Site Area Interim Cover

MWH will begin moving the PCB-impacted sediments from the On-Site Area to the Off-Site Area on July 22. The sediments will be used to fill Swale 5 and be placed under the Off-Site Area final cover as detailed in the PCB-Impacted Soils Excavation Work Plan. The anticipated truck route is through the South ACS gate, over the railroad tracks, and into the Off-Site Area. The work will be performed by MEI and is anticipated to last approximately one to two weeks.

A Request for Bid is expected to be sent out within the next two weeks for the installation of the On-Site Area Interim Cover for work to begin in the fall.

Looking Ahead

Week of...	Task
July 22	<ul style="list-style-type: none">• GWTP and ISVE system operation/monitoring/sampling• Heritage to continue pipe pressure testing in Off-Site Area• Construction meeting on July 25
July 29	<ul style="list-style-type: none">• Begin sediment replacement from the On-Site Area to Off-Site Area• Construction meeting on August 1

Next Weekly Construction Meeting

- The next meeting is schedule for Thursday, July 25, 2002.

TMK/RAA/PIV

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Weekly Oversight Summary Report No. 73
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 22, 2002

BVSPC O/S Dates: July 23 and 25, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	6	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Midwest Environmental, Inc.	7	PCB Sediment Contractor
Austgen	1	Electrical Contractor
Simalabs	2	Air Sampling Contractor
Eagle Services	3	OFCA ISVE Well Cleaning Contractor
Great Lakes Testing	1	Clay Compaction and Moisture Testing Contractor
Area Survey	2	Surveyors

Construction Activities

Major Activities:

- Midwest Environmental, Inc. relocated the PCB-impacted sediments from the On-Site Containment Area firepond to Off-Site Containment Area swale 5.
- Midwest Environmental, Inc. damaged the steel fiber optic conduit in the Off-Site Containment Area.
- Area Survey surveyed the On-Site Containment Area firepond after the sediments were removed.
- Montgomery Watson Harza continued to operate the Off-Site Containment Area in-situ soil vapor extraction system.
- Eagle Services removed sediment from the Off-Site Containment Area in-situ soil vapor extraction system wells.
- Simalabs collected the final compliance sample for the thermal oxidizer.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Midwest Environmental, Inc. (MEI) remove a portion of the interim clay cover from the Off-Site Containment Area (OFCA) in order to fill swale 5 with PCB-impacted sediments stockpiled on the On-Site Containment Area (ONCA) firepond. Montgomery

Watson Harza (MWH) and American Chemical Services, Inc. gave a health and safety training session to MEI on Monday for the bulldozer operator and on Tuesday for the drivers. MEI completed moving the sediments from the firepond to swale 5 on July 25, 2002. Approximately 3,800 CY of sediments were relocated. MEI began replacing the clay on July 26, 2002, in two 6-inch-thick lifts. MEI compacted the clay with sheepsfoot and vibratory smooth drum rollers. Additional clay from the original borrow source was brought to the site for grading. MWH reported that it had Great Lakes Testing on-site on July 26, 2002, to perform compaction and moisture testing of the replaced clay. MEI reported that it expects to complete the reinstallation of the interim cover by July 29, 2002. MEI also extended the manrings at extraction wells EW-13 and EW-12.

On Tuesday, July 23, 2002, MEI damaged the galvanized steel conduit that carries the fiber optic cable from the OFCA blower shed to the groundwater treatment plant (GWTP). MWH reported that it did not lose communication with the blower shed, indicating that the cable may not be damaged. MWH arranged for Austgen to inspect the conduit on July 23, 2002. Austgen recommended to MWH that the conduit be replaced since the construction of the final cap inhibits the ability to replace the conduit in the future. MWH continued discussions with Austgen regarding the schedule for replacing the conduit.

MWH reported that it has received several submittals from Environmental Contractors of Illinois (ECI) for the OFCA engineered cover work. ECI is scheduled to begin the engineered cover work on August 12, 2002.

MWH reported that Area Survey was on-site on Friday, July 26, 2002, in order to survey the ONCA firepond area for the interim cover installation. MWH also reported that it issued the Request for Bids for the ONCA interim cover installation on July 26, 2002. MWH was deciding whether or not to hold a site walk-through meeting for the bidders.

MWH continued operating the OFCA in-situ soil vapor extraction (ISVE) system. MWH had Eagle Services come to the site to remove the sediments that have built up in the ISVE wells from which MWH is unable to establish flow. Eagle Services began cleaning the wells by jetting water through the screened length of the well and vacuuming out the sediments. MWH reported that it plans to prove-out the remaining 10 wells next week. Simalabs collected the eighth and final compliance sample for the OFCA ISVE thermal oxidizer on July 25, 2002. MWH reported that the first sample collected before the welds were replaced on the thermal oxidizer will be included as a compliance sample.

MWH reported that it is operating the groundwater treatment plant at 48 gpm and extracting water from all available sources. MWH reported that Austgen will reconnect the control panel to EW-12 next week. MWH reported that the sludge rake shaft and gear box for the lamella clarifier is being repaired and will be re-installed on Monday, July 29, 2002. Currently, MWH is operating the lamella clarifier, however, the sludge rake is not functioning.

MWH held the weekly construction coordination meeting on July 25, 2002.

Topics of Concern:

- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- None to report.

Upcoming Activities:

- MWH to prove-out the remaining OFCA ISVE wells.
- Eagle Services to complete cleaning the OFCA ISVE wells.
- MWH to repair the gear shaft for the lamella clarifier sludge rake.
- MEI to complete replacing the OFCA interim cover located south of the blower shed.
- Austgen to reconnect the control panel at EW-12.
- ECI to begin OFCA engineered cover construction on August 12, 2002.

Signature: Leigh Peters

Date: July 29, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR JULY 25, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 25, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Lee or Tom)

GWTP Status (Lee)

- Current flow rate

Off-Site ISVE System (Chris or Tom)

- ISVE Well Test Out Process
- Off-Gas Sampling

Off-Site Final Cover (Tom or Ken – MEI)

- Sediment Relocation Update
- Replacement of Clay Cover
- Raising EW-12 and EW-13

On-Site Interim Cover (Todd)

- Site Walk
- Begin Construction Activities

Looking Ahead

Week of...	Task
July 29	<ul style="list-style-type: none">• GWTP/SVE system operation• Complete Sediment Relocation
August 5	<ul style="list-style-type: none">• GWTP/SVE system operation•

Next Weekly Construction Meeting

- Thursday, August 1, 2002

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
JULY 25, 2002

Name	Company	Fax Number
TOM TIVIES	MWH	
Ken Field	Midwest Env.	(214) 933-4750
Chris Daly	MWH	(630) 836-8959
ROB ADAMS	MWH	630-836-8959
Leigh Peters	BVSPC	312 346 4781
LEE OROSZ	MWH	
Thais Klingforth	MWH	
TODD LEWIS	MWH.	

VIA PHONE

KEVIN ADLER	EPA
PETE VABT	MWH

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR JULY 25, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, July 25, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Robert Adams, MWH
Chris Daly, MWH
Travis Klingforth, MWH
Todd Lewis, MWH
Lee Orosz, MWH
Peter Vagt, MWH (via phone)
Ken Field, MEI
Kevin Adler, U.S. EPA (via phone)
Leigh Peters, BVSPC

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on July 18. Midwest Environmental, Inc. (MEI) has been relocating the PCB-impacted soil currently stored in the Fire Pond Area to Swale 5 in the Off-Site Area. A kickoff and health and safety meeting was held July 23 prior to beginning the work of transporting the material. An additional health and safety meeting was conducted by Tom Froman of ACS for personnel working inside the ACS facility. A truck transportation route has been clearly cordoned off. MEI is performing work using the health and safety plan they have already created for similar work done previously at the Site. Eagle Services is on site to clear SVE wells. Prior to beginning work, a health and safety meeting was held on July 25.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently running at approximately 48 gallons per minute. Water is being brought in from all barrier wall extraction wells in operation except EW-12. The outer casing of EW-12 has been raised so that it will meet the final grade after the completion of the final cover. Electrical power to the pump in EW-12 will be restored by July 26. The motor for the aeration tank blower has been reinstalled. The mixer in the Lamella clarifier has been rehabilitated and should be back on line next week.

The next compliance samples for the catalytic and thermal oxidizers and scrubbers are scheduled to be collected on July 25. Effluent compliance sampling is scheduled for July 25. This month's sample will be analyzed for the full range of analytes similar to previous samples. The Agencies will review MWH's recommendation to collect compliance samples at the frequency detailed in the Performance Standard Verification Plan (PSVP).

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The ISVE system ran continuously throughout the week. The system was shut down to allow Eagle Services to vacuum out accumulated sediment in some of the ISVE wells. Once Eagle finishes the maintenance, the extraction well prove-out process will continue. Heritage has completed pressure testing of all ISVE yard pipes and found all to be intact.

Off-Site Area Final Cover

Environmental Contractors of Illinois (ECI) has been awarded the subcontract to install the final cover and a contract has been assigned. ECI is currently developing the required submittals and is expected to submit them to MWH in the next week or two. Mobilization is scheduled for August 12 and the fieldwork is anticipated to last four to six weeks.

On-Site Area Interim Cover

Midwest Environmental (MEI) began the transfer of PCB-impacted sediments from the On-Site Area to the Off-Site Area on July 22. On July 22 and 23, 2002, MEI removed the 12-inch thick clay cover in Swale 5 in the Off-Site Area. The clay was stockpiled at the perimeter of Swale 5. On July 23, MEI began transporting soil from the On-Site Area. Seventy-two truck loads were transported on July 23. On July 24, 92 loads were transported. An additional 36 loads of soil were moved at the time of this meeting on July 25. Once the soil transfer has been completed, the dump trucks will be dry deconned in the On-Site Area and then pressure washed at the GWTP. MEI has begun to add water to the clay stockpiles to prepare the clay for use as final cover material. On July 29, the clay will be re-placed in the Swale 5 area and compacted with a Sheep's Foot Compactor and a Smooth-Drum Roller. Great Lakes Environmental will be on site next week to perform compaction and moisture testing.

A Request for Bid is expected to be sent out within the next week for the installation of the On-Site Area Interim Cover for work to begin in the fall.

Looking Ahead

Week of...	Task
July 29	<ul style="list-style-type: none">• GWTP and SVE system operation• MEI completing Soil Transfer• Eagle Services continues SVE well cleaning• On-Site Cover RFB issued• On-Site Cover Site Walk August 8 (TENTATIVE)• Construction Meeting on August 1
August 5	<ul style="list-style-type: none">• GWTP and SVE system operation• Construction Meeting on August 8

Next Weekly Construction Meeting

- The next meeting is schedule for Thursday, August 1, 2002.

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Weekly Construction Meeting MinutesJuly 25, 2002 Meeting

July 29, 2002

Page 2

ACS NPL Site
Griffith, Indiana

Weekly Oversight Summary Report No. 74
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of July 29, 2002

BVSPC O/S Dates: July 30 and August 1, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Environ	1	PRP Group Consultant
Midwest Environmental, Inc.	3	PCB Sediment Contractor
Great Lakes Testing	1	Clay Compaction and Moisture Testing Contractor
Austgen	1	Electrical Contractor
Eagle Services	2	OFCA ISVE Well Cleaning Contractor
Ryan Construction	1	General Contractor
Koester Environmental Services	1	ONCA Interim Cover Bidder
Environmental Contractors of Illinois	2	ONCA Interim Cover Bidder and OFCA Engineered Cover Contractor
Hard Hat	1	ONCA Interim Cover Bidder
EQ	1	ONCA Interim Cover Bidder
Onyx	2	ONCA Interim Cover Bidder

Construction Activities

Major Activities:

- Midwest Environmental, Inc. completed compacting the interim cover over the former swale 5 location.
- Eagle Services completed jetting and vacuuming the Off-Site Containment Area in-situ soil vapor extraction wells to remove the sediment build-up.
- Montgomery Watson Harza continued to operate the Off-Site Containment Area in-situ soil vapor extraction system in order to prove-out the remaining 10 wells.
- Austgen reconnected the control panel to extraction well EW-12.

- Montgomery Watson Harza installed the repaired gear shaft in the lamella clarifier.
- Montgomery Watson Harza held the site walk-through meeting for the On-Site Containment Area interim cover.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Midwest Environmental, Inc. (MEI) replace the interim clay cover on the Off-Site Containment Area (OFCA), covering the PCB-contaminated sediments that were placed in swale 5. Montgomery Watson Harza (MWH) reported that it decided to not replace the steel conduit that was damaged by MEI last week. MWH reported that because the fiber optic cable was not damaged, that it decided that the conduit did not need to be replaced. MWH also reported that Great Lakes Testing performed compaction and moisture testing of the replaced clay cover. MWH reported that the results of the testing met its requirements for compaction and moisture.

MWH reported that Eagle Services completed jetting and vacuuming the OFCA in-situ soil vapor extraction (ISVE) wells on July 31, 2002. MWH reported that it established flow in nine of the 10 remaining wells that need to be proved-out. MWH reported that it is unable to establish flow in SVE-03 and that it will isolate the well and attempt to establish flow. If MWH is unsuccessful, it reported that it will investigate other means to clear out the well. MWH continued to operate the OFCA ISVE system, proving out nine of the remaining wells. BVSPC observed that corrosion was developing on the welds for the piping to the scrubber in the groundwater treatment plant (GWTP). BVSPC discussed this with MWH. MWH reported that it will have Ryan Construction disassemble the scrubber and repair the damage and inspect the scrubber sump and packing.

MWH held a site walk-through meeting for the On-site Containment Area (ONCA) interim cover on August 1, 2002. Several potential bidders attended the meeting and discussed the Request for Bid. MWH reported that it expects to begin work on the ONCA interim cover in September 2002.

MWH reported that the GWTP was operating at 40 gpm. Austgen installed the control panel to EW-12 on August 2, 2002. MWH resumed pumping from this well. MWH also replaced the gear box in the lamella clarifier on July 29, 2002. MWH reported that it expects to add heat transfer equipment to tank T-2 and insulate the sludge tank and equalization tank in the upcoming weeks.

MWH held the weekly construction coordination meeting on August 1, 2002.

Topics of Concern:

- The residential well located at 1007 Reder Road could not be sampled during the annual residential well sampling event in October 2001 because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- None to report.

Upcoming Activities:

- MWH to prove-out the remaining OFCA ISVE wells and establish flow from SVE-3.

- Ryan Construction to disassemble the OFCA ISVE system scrubber to evaluate the corrosion.
- ECI to begin OFCA engineered cover construction on August 12, 2002.
- MWH to install heat transfer plates in tank T-2 and insulate the sludge and equalization tanks.

Signature: Leigh Peters

Date: August 6, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR AUGUST 1, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, August 1, 2002

MEETING TIME: 10:00

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Lee or Tom)

GWTP Status (Lee)

- Current flow rate

Off-Site ISVE System (Chris or Tom)

- ISVE Well Test Out Process
- Off-Gas Sampling

Off-Site Final Cover (Tom or Ken – MEI)

- Sediment Relocation Update
- Replacement of Clay Cover

On-Site Interim Cover (Todd)

- Site Walk
- Begin Construction Activities

Looking Ahead

Week of...	Task
August 5	<ul style="list-style-type: none">• GWTP/SVE system operation• Complete Sediment Relocation
August 12	<ul style="list-style-type: none">• GWTP/SVE system operation•

Next Weekly Construction Meeting

- Thursday, August 8, 2002

Name	Company	Fax Number
Peter Vagt	MWH	630-836-8959
TOM TINICS	MWH	
CHRIS DALY	MWH	
Lyle Peters	DVSPC	312-346-4781
ROB ADAMS	MWH	630-836-8959
MARK TRAVORS	ENVIRON	312.853.9025
TODD LEWIS	MWH	312 836 8959

VIA PHONE

TRANS KUNGFORTH	MWH
KEVIN ADLER	EPA

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR AUGUST 1, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, August 1, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics, MWH
Robert Adams, MWH
Chris Daly, MWH
Todd Lewis, MWH
Peter Vagt, MWH
Mark Travers, Environ
Kevin Adler, U.S. EPA (via phone)
Leigh Peters, BVSPC

TOPICS:

Health and Safety Summary

No health and safety incidents have occurred since the last construction meeting on July 25. Following completion of the relocation of the PCB-impacted soil stored in the Fire Pond Area to the Off-Site Area, MWH held an award luncheon for Midwest Environmental's crew to recognize their safe work practices. MWH Constructor's Corporate Health and Safety Office, Michael Grasso, conducted an unscheduled site audit on July 25. No deficiencies were noted. A significant number of wasps have been noted around the site recently. Exterminators have been scheduled to spray around the GWTP and trailer.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently running at approximately 40 gallons per minute. Water is being brought in from all barrier wall extraction wells in operation except EW-12. EW-12 will be back on line following restoration of power to the well on August 2.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

MWH is continuing to confirm proper operation of all the ISVE wells; ten wells remain. Eagle Services completed cleaning of the ISVE wells on July 31. Flow from 9 of the 10 remaining wells improved following the cleaning. Flow at SVE-3 has yet to be established. MWH is investigating potential causes and will evaluate possible remedies. The 8-round effluent sampling regimen for the Catalytic and Thermal Oxidizers was completed last week. Results will be included in the monthly status reports as they validated.

Off-Site Area Final Cover

Relocation of PCB-impacted sediments from the SBPA to the Off-Site Area was completed on July 31. The 12-inch clay layer was restored over the transferred soil. Density and

moisture requirements were met. Excess clay was added near SVE-9, 10, 11 and 12, to improve drainage in the area. This clay was compacted but not tested for density or moisture because of the existing 12-inch thick clay layer beneath.

Submittals from Environmental Contractors of Illinois regarding the Final Cover are currently being reviewed by MWH. Once finalized, MWH will distribute the submittals to the Agencies and Black & Veatch.

On-Site Area Interim Cover

The Request for Bid was distributed on July 26. The site walk is scheduled for August 1. Bids will be due in approximately 2 weeks and work is anticipated to begin in 4 to 6 weeks.

Looking Ahead

Week of...	Task
August 5	<ul style="list-style-type: none">• GWTP and SVE system operation• Thermal Oxidizer/Scrubber maintenance (Tentative)• Construction Meeting on August 8
August 12	<ul style="list-style-type: none">• GWTP and SVE system operation• Construction Start for Off-Site Area Final Cover• Construction Meeting on August 15

Next Weekly Construction Meeting

- The next meeting is schedule for Thursday, August 8, 2002.

CAD/TAL/RAA

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(100)

7/11/02

Jeff E. Patten

0700 Arrive on-site, Partly cloudy 75°F, East breeze

Personnel Present:

* Lee Orosz MNH

* Jordan Knowles HIS

Jerry Clark Ryan

Duke Trunkamp HIS

* Leigh Peters BVSPC

0710 Walked OFCA drier, HIS has excavated
K-P trenches and connections at yard
piping at the well. Yard piping to
SVE-01 broken

0715 Roll 24 Photo 1 facing south showing broken
HDPE yard piping

Roll 24 Photo 2 facing south west showing
broken yard piping and trench to SVE-21

0720 Observed EW-13 had not been raised
or EW-12.

0725 Roll 24 Photo 3 facing east at glommet
showing damage to yard piping to SVE-1

0735 Spoke with Lee Orosz. He reported that
Avstgen replaced memory comp in system
this week. Errors in operating plant and ISVC
thermax followed. Avstgen replaced original.
Lee reported that BWTP operators, bypassing
the lamella clarifier, gears on sludge

Jeff E. Patten

(101)

7/11/02

Jeff E. Patten

valves on clarifier are locked up. MNH to
replace. Lee reported that ISVC system not
to operate while HIS working - Especially since
HIS breaking pipes. L. Orosz reported HIS meeting
with HIS on Monday. HIS to hold daily tailgate
meetings. I asked if HIS is documenting. Lee
did not know. He also reported that C. Daly is
back on site discussing HIS. C. Daly not arrived
yet today. Lee also reported that MNH
pumping trucked arrived to tank near
blowershed for HIS to wet clay.

0750 Returned to OFCA Roll 24 Photo 4 facing
northwest of pldy tank holding effluent

0755 Roll 24 Photo 5 facing north showing HIS wetting
clay.

0800 Spoke with T. Timms. He reported that Patricia
is fixing moisture and compaction after HIS
finishes with trench. Currently, HIS met
requirements on western area north of blower
shed. I asked Timms if HIS digging up
air sparge trenches. He said yes.

0820 Roll 24 Photo 6 facing north showing HIS
re-welding replacement HDPE piping section
for SVE-21.

0850 Roll 24 Photo 7 facing south showing HIS

Jeff E. Patten

(102)

7/11/02 *Jim Smith*

rolling and compacting moist clay into
ISVE yard piping trenches.

10:00 Weekly Construction Meeting

Attendees: tk on previous plus:

Todd Lewis MWH

Rob Adams MWH

Tom Tinos MWH

Kevin Adler USEPA (via phone)

Fate Vagt MWH (via phone)

HIS: no incidents. HIS on-site, MWH reviewed
pertinent HIS issues with them. Upcoming
will be moving sediments from ONCA to OFCA.

GWTP: MWH replaced CPU processing system
down over the holiday weekend. GWTP now
operating. Lamella clarifier is being bypassed.
maintenance on sludge rake gears locked up.
MWH installed piping modifications in GWTP
to enable MWH to direct effluent for activities.

ISVE: down because of CPU since Wednesday
7/9. Currently running one remaining set of
wells to prevent to continue compliance
sampling. MWH to not consider first round.

OFCA Cap: contract with ECI. ECI preparing
submit HIS, work to start 8/12, 4-6 weeks.

MWH to move 4,000 cu ft sediments

Jim Smith

(103)

7/11/02 *Jim Smith*

from ONCA. Prepared to fill Swale 5. MWH to remove
cap, place underneath traffic route over tracks,
not to go on CalFax. Expect 4 days of work.
Upcoming activities: prove-out SVE, HIS to complete
work, move sediments.

10:30 Meeting. Prepared next meeting 7/18 @ 10 AM

10:45 Returned to OFCA to observe HIS

10:50 Roll 24 Photo 8 facing north showing duct type
seen damaged gate valve to SVE-14

11:30 Left site

12:00 Return to site. Continue to observe HIS.

Compact and test clay backfill.

14:05 Roll 24 Photo 9 facing north showing Patrick
performing nuclear density test for testing for
SVE 21

14:10 Spoke with C. Duly - he reported that HIS
should be finished next week. R. Adams
reported that MWH expects to begin
moving sediment piles 7/22/02.

14:45 Left site for day

Jim Smith
7/11/02

(104)

7/15/02

J. E. Peters

0700 Arrive on-site, Clear, Southeast wind 80°F

Personnel Present:

* Tom Tinies MWH

* JT Baker HIS

Ricky Williams HIS

* Leigh Peters BVSPC

Spoke with T. Tinies. He reported that HIS making progress on pressure testing should be completed this week. Observed leak in flex piping to carbon units. T. Tinies reported R Adams to be out today. He will have R Adams shut down system to repair. Thermax running, changing wells as needed for HIS. T. Tinies also reported that Simulabs to collect air samples from Thermax and catex today.

0740 Went to OFCA to observe HIS. HIS completed testing the K-P area. Observed hissing noise at SVE-4 - to ask T. Tinies regarding flange connection at well.

0800 Spoke with HIS. They are inserting blind flanges. Pressure testing w/ T. Tinies present. Then replacing flex tube and capping wells. HIS has 13 remaining wells. HIS still needs to place bentonite seal around joints

J. E. Peters

(105)

7/18/02

J. E. Peters

0820 Roll 24 Photo 10.9 facing north showing access path from ONCA to ISVC well field for sediment traffic

0835 Observed T. Tinies air monitoring blower shed prior to HIS pressure testing. SVE-4 inspected w/ T. Tinies and HIS, saddle not tight at SVE-4. HIS to dog out and tighten. T. Tinies reported that MWH will pull from all wells before sealing with bentonite. T. Tinies reported wells evacuated prior to HIS working.

0844 Roll 24 Photo 10B facing northwest of pressure testing SVE 12

0845 Asked T. Tinies if they had the HIS certs for Ricky Williams. He reported that they received them last week.

0850 Roll 24 Photo 11 facing north showing MWH and HIS replacing gate valve at SVE-14.

0900 HIS pressure test requirement of 50 psi for 3 min

0915 Roll 24 Photo 12 facing southwest at ground showing HIS tightening flange at SVE-15 with torque wrench 100 lbs

1000 Weekly Construction Coordination Meeting

Attendees: * on previous list plus

Peter Vagt MWH

Rob Adams MWH

J. E. Peters

(106)

7/15/02

Jeff Smith

Sean Goady IDEM

Prabhakar Kusarabada IDEM

Travis Klingforth MNH

Kevin Adler USEPA

Chris Daly MNH

Todd Lewis MNH (via phone)

H+S: no issues. PCB sediment moving. H+S meetings to be held Monday and Tuesday.

MNH to reinstate weekly H+S meetings for ECI in August.

CEWP: 30 gpm, lamella operating, sludge rake gears in for repair. Added new piping to direct effluent and potable water.

BVE: pressure transducer knocked out on Tue. repaired, system operating. Have 10 more wells to probe out. Pulling 1 lb/hr VOCs from DECA. To look into grouping wells for future operations and following PSUP.

DECA: H+S has 13 wells to pressure test. May not be complete with backfill until Monday. ECI to start August 12, MNH to provide plans week of August 5.

ONCA: MEI to start moving PCB sediments on Monday. Grading of ONCA to start in September.

Jeff Smith

(107)

7/16/02

Jeff Smith

1050 Mtg. Concluded. Next meeting, July 25, 2002

1100 PHOTOKAT walkthrough with MNH/IDEM and EPA to orient IDEM to site. Observed Simulaks collecting air samples from the CATOX and Thermox units.

1230 Left site for lunch

1330 Return to site. Spoke with Larry Campbell regarding site activities.

1400 Began Review of BWES COR.

1500 Left site for Day

~~Jeff Smith~~

(108)

9/23/02

J. Peters

- 0710 Arrive onsite, cloudy 70°F, Strong wind from North
Personnel On-site
Travis Klingforth MWH
Lee Cross MWH
Steve Field MEI
Wigh Peters MEI
- 0720 Spoke with Ken and Steve Field. They reported that they hit the fiber optic conduit, Lee Cross assessing damage, but no alarms observed in plant. MEI continues to remove clay cover and prepare tracks for truck traffic, placed geotextile and stone. Drivers to arrive 8:00 AM for on-site training prior to starting work.
- Roll 24 photo 13 facing west showing
- 0735 MEI remove interian cover from western portion of snake S.
- 0740 Spoke with Travis Klingforth. He reported HHS done on Friday. MEI to start filling in eastern snake first, PCBs ~~sediments~~ ^{sediments} in 12-inch thick lifts, clay in 2-6 inch thick lifts. Great Lakes to perform testing.
- 0750 Roll 24 Photo 14 showing MEI placing geotextile for temporary road between ACS and OFCA.

J. Peters

9/23/02

J. Peters

(109)

- 0800 Attended HHS meeting for MEI truck drivers and excavator.
- 0830 Mtg concluded worked OFCA area with drivers.
- 0840 Roll 24 Photo 15 facing north looking at conduit bent by excavator that holds fiber optic. MWH reported Austgen to be on-site to assess fiber optic cable.
- 0910 Observed MEI loading PCB impacted sediments from OFCA.
- 0915 Roll 24 Photo 16 facing northwest showing MEI loading PCB materials.
- 0920 Asked Travis regarding dust control. MWH to provide water + hose to MEI if necessary, will check with operator.
- 0930 Roll 24 Photo 17 facing east of MEI unloading PCBs into Snake 5 immediately east of land bridge.
- 1010 Spoke with T. Thoms. He reported that a vac truck will be on-site Thursday to vacuum out liquids in remaining 10 site wells that need to be probed out.
- 1030 MEI began filling culvert piping under land bridge with clay.
- 1120 Austgen on-site inspecting damaged conduit. recommends that the conduit be replaced.

J. Peters

(110)

7/23/02

J. E. P. R. C.

now before cap installed, may be able to
reuse cable

1140 Spoke with Larry Campbell regarding site activities

1200 Left Site for lunch

1230 Return to site. Observed MWH strike situation

1 for filling in Swale 5.

1245 Roll 24 Photo 18 facing south east showing
MWH striking elevations for PCB material

1320 Roll 24 Photo 19 facing west of MEI
loading PCB sediments from forepond area

1330 Left Site for day

1/23/02
J. E. P. R. C.

(111)

7/25/02

J. E. P. R. C.

0730 Arrive on-site. P. Cloudy 75°F. light SE wind

Personnel on-site

* Travis Klingforth MWH

Randy Sutter MEI

Mark Sutton MEI

Don Radtke MEI

Mike Hunchaw MEI

Doug Drishman MEI

* Ken Field MEI

Steve Field MEI

* Lou Cross MWH

* Todd Lewis MWH

* Leigh Peters BVSFC

0740 Observed MEI continue to load and move
PCB sediments to DECA Swale 5. East portion of
swale 5 filled and graded, MEI loading PCB
sediments to western portion and compacting with
vibratory roller

0745 Roll 24 Photo 20 facing west of MEI rolling
and unloading sediments into western portion
of Swale.

0750 Roll 24 Photo 21 facing east of PCB sediments
compacted in eastern portion of Swale 5

0800 Spoke with T. Klingforth and K. Field.

Expect to have relocated all sediments

J. E. P. R. C.

(112)

7/25/02

Log E.P. Jm

This morning Begin placing clay pantheon
K. Field reported that he expects to be finished
by Tuesday. T. Klingbecker reported that Area
Survey to be out tomorrow to re-survey area
around. MWH to vacuum out SVE wells
today.

0830 Eagle Services on-site discussing well vacuum
and jetting system with MWH. Eagle to dispose
of water and debris at GWRP. MWH provided
H+S training, MWH to perform air monitoring
during well cleaning activities. T. Tinius reported
that MWH to ^{or} Eagle to place sludge
in fire pond area.

0940 Watched Eagle prepare to jet well SVE 7

0950 Roll 25 photo showing Eagle inserting jet
into SVE 7

1010 Weekly Construction Meeting

Quisond Attending - * on previous plus

Rob Adams MWH

Tom Tinius MWH

Chris Duly MWH

Peter Vaght MWH via phone

Kevin Adler USEPA via phone

H+S: no incidents MEI and Eagle working
on-site, no incidents. Eagle had H+S Mtg

(113)

7/25/02

Log E.P. Jm

This morning, MEI H+S Mtg on Tuesday

AUTP: Plant at 48 gpm, need to reinstall
EW12 electric. MWH to reinstall shaft and
gear box on Monday. MWH to collect compliance
sample today - evaluate moving to ASGP PSVP
sampling next month.

DECA ISVE silting in wells, Eagle to remove
silt with vac truck. ISVE down this morning
for well vacuum, to be online this afternoon
and Simalabs to collect sample 7 of 8. MWH to
probe out remaining 10 wells next week

DECA COVER: MEI to complete moving PCB
sediment today, replace clay cover by
Monday. Great Lakes to survey for test
compaction + moisture on Friday. MWH
evaluating RUP, H&SP + CRAP from ECI.

DECA: RFP out tomorrow, still deciding work
through meeting.

1035 Mtg Adjourn, next meeting 8/1/02 @ 10 AM

1050 Spoke with Larry Campbell regarding site
activities.

1100 Went to DECA to observe activities

1120 Roll 25 Photo 2 facing north showing Eagle
jetting and vacuuming SVE 3

1155 Roll 25 Photo 3 facing west of fire pond area

1200 Left site for day

Log E.P. Jm

(114)

7/30/02

J. Kingfort

0720 Arrive Onsite, 80°F, Sunny, Clear, light SW wind

Personnel Present:

THOMAS KINGFORT MTH

* ILO DROSSZ MTH

Ken Field MEI

Ligia Peters BVSPE

0730 Went to DECA Spoke with TKI-3 fort regarding activities. MEI placed + compacted 1st lift on eastern portion of Swale 5. Great lakes tested, compaction and moisture requirements met. MTH requires 8 tests per acre per lift. Passes optimum to opt + 2% and 95% compaction. MEI rolling first lift on eastern portion and compacting first lift on eastern portion with sheepfoot. Low point in river between site wells found!! MTH reported clay to be delivered tomorrow to fill area.

0700 Roll 25 Photo 4 facing northeast of MEI rolling eastern portion with vibratory roller. Note low grade near SVE wells.

0705 Roll 24 Photo 5 facing north of MEI rolling compacting western with sheepfoot.

0710 Earlier + Kingfort reported that MTH established flow from 9 of 10 remaining wells.

J. Kingfort

7/30/02

J. Kingfort

(115)

Engle to be on site Wednesday for Contractor clearing wells. T. Kingfort also reported that MTH found still crack in and check and replace or repair. Engle scheduled to be working.

0840 MTH waiting for Great Lakes to test clay

0850 Returned to JNCH. MTH replacing received shaft in immediate vicinity. Observed significant corrosion on scrubber, primarily at the joints of piping connecting Thruway to scrubber.

0855 Roll 24 Photo 6 facing south of scrubber

0900 Roll 24 Photo 7 facing southwest of Corrosion at elbow from Thruway to scrubber.

0915 Returned to DECA. Observed large off of SVE-18 and that vacuum being pulled from well. Will ask Tom Times about well and corrosion on scrubber.

0930 Spoke with T. Times being reported that he is looking for wells. MTH contacted Engle to repair in few weeks. T. Times stated that he has missed the calcium buildup off of scrubber. Engle scheduled to be here today at 12:00. MTH reported Engle clearing and maintaining all wells.

1030 MTH called DECA with MTH and J. Kingfort. MTH reported that they had a good flow to SVE-18. MTH to survey grades of swale area.

J. Kingfort

(116)

7/30/02

Jeff E. Peter

filled by MEL. Still waiting for info for Great Lakes for completion and moisture testing.

1120 Eagle returned to site to continue jetting and vacuuming ISVE wells.

1245 MWI reported Great Lakes to test around

2300. Return tomorrow to complete. Observed MEL rolling western portion of former Swale 5 and Eagle jetting and vacuuming ISVE wells. MWI reported that Austin will bring additional clay to site tomorrow so that MEL can finish second lot on western Swale 5. MEL and Eagle to complete site activities on Wednesday.

1330 Left site for day

Jeff E. Peter
7/30/02

(117)

8/1/02

Jeff E. Peter

0730 Arrive on site, clear 80°F, light SW breeze
Personnel Present

* Tom Tinics MWH

* Larry Peters BWSPC

0745 Went to OFCA, Appends that MEL completed filling Swale 5 and replacing cover.

0750 Roll 24 Photo 8 facing southeast showing ISVE well field from blower shed. Swale 5 filled in, land bridge no longer remains.

0800 Reviewed RFB for ONCA interim cover. Site walk through scheduled for 13:00 today.

0815 Spoke with Tom Tinics. He reported that MEL finished OFCA fill of Swale 5 and all tests passed completion and moisture. He also reported that Eagle completed jetting ISVE wells, sludge disposed of in ONCA fire pond. M. Garza of MWH performing HIS inspection of SWTP today. Observed HIS inspection.

0830 Continued RFB review and discussed with R. Adams of MWI.

1000 Weekly Const Mtg. Attendees - * from previous plus
Peter Vogt MWH Rob Adams MWH
Chris Daly MWH Todd Lewis MWH
Mark Travers Environ
Kevin Arner USEPA (via phone)

(118)

8/1/02

J. E. P. R. H.

H+S: no incidents. MWI H+S inspection today.
WSPS on site to be included in H+S mtgs.
GWP operating at 40 gpm. Austgen to
connect CWIC tomorrow and will be brought
on-line.

ISUE: Eagle finished jetting and vacuuming
wells. MWI does not have flow from En-3.
Te attempt to pull vacuum again, may
investigate other cleaning or abandon. Finished
compliance sampling of thermox to begin monthly
sampling with PSVP. Influent of 1165 VOCs, 99.94%
destruction.

OECA cover: finished filling swales. Great Lakes
performed testing and passed. Appx 3800
CY of sediments were relocated. Working
with ECI on submittals, ECI to start work
on 8/12 or possibly 8/19.

ONCA cover: RFB issued, site walkthrough
today at 13:00. MWI expects to be
completed end of September. RFB for wells
to be issued 1-2 weeks and installed Oct.

Next Mtg: 8/8/02

1045 Mtg. Concluded

1100 Spoke with T. Trues. Ryan Const to disassemble
scrubber in upcoming weeks. Mail to

J. E. P. R. H.

(119)

8/1/02

J. E. P. R. H.

have Ryan install heat exchanger in T-2
and have sludge and equalization tanks
insulated over next few weeks.

1145 Left site for lunch

1245 Return to site

1300 Walk through meeting for ONCA cover.
Discussed bid document and conducted site walk
with Tom Framon of ACS. Schedule of AFB
marked up by J. Wade.

1345 Site walk through concluded. Spoke with
Larry Campbell regarding site activities.

1445 Joned ECI and MWI on OECA to discuss
cap activities.

1430 Returned to site trailer and reviewed RFB documents.

1515 Left site for day

J. E. P. R. H.
8/1/02



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #1

Date: 07-11-02 Time: 07:15

Photographer: Leigh Peters

Description: Photo facing south showing damaged OFCA ISVE HDPE yard piping to SVE-01.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #2

Date: 07-11-02 Time: 07:15

Photographer: Leigh Peters

Description: Photo facing southwest showing the broken HDPE yard piping and trench to SVE-01.



Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #3
 Date: 07-11-02 Time: 07:25
 Photographer: Leigh Peters
 Description: Photo facing east at the ground showing damage to SVE-21.



Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #4
 Date: 07-11-02 Time: 07:50
 Photographer: Leigh Peters
 Description: Photo facing northwest of temporary tank at the OFCA blower shed for GWTP effluent for water supply on OFCA.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #5

Date: 07-11-02 Time: 07:55

Photographer: Leigh Peters

Description: Photo facing north showing HIS wetting clay for backfill in ISVE yard piping trenches.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #6

Date: 07-11-02 Time: 08:20

Photographer: Leigh Peters

Description: Photo facing north showing HIS welding replacement HDPE piping section for SVE-21.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #7

Date: 07-11-02 Time: 08:50

Photographer: Leigh Peters

Description: Photo facing south showing HIS rolling and compacting moist clay into ISVE yard piping trenches.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #8

Date: 07-11-02 Time: 10:50

Photographer: Leigh Peters

Description: Photo facing north showing duct tape over damaged gate valve to SVE-14 in the blower shed.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #9

Date: 07-11-02 Time: 14:05

Photographer: Leigh Peters

Description: Photo facing north showing Patrick Engineering performing nuclear density testing for backfilled trench to SVE-21.



Site: American Chemical Services, Inc.

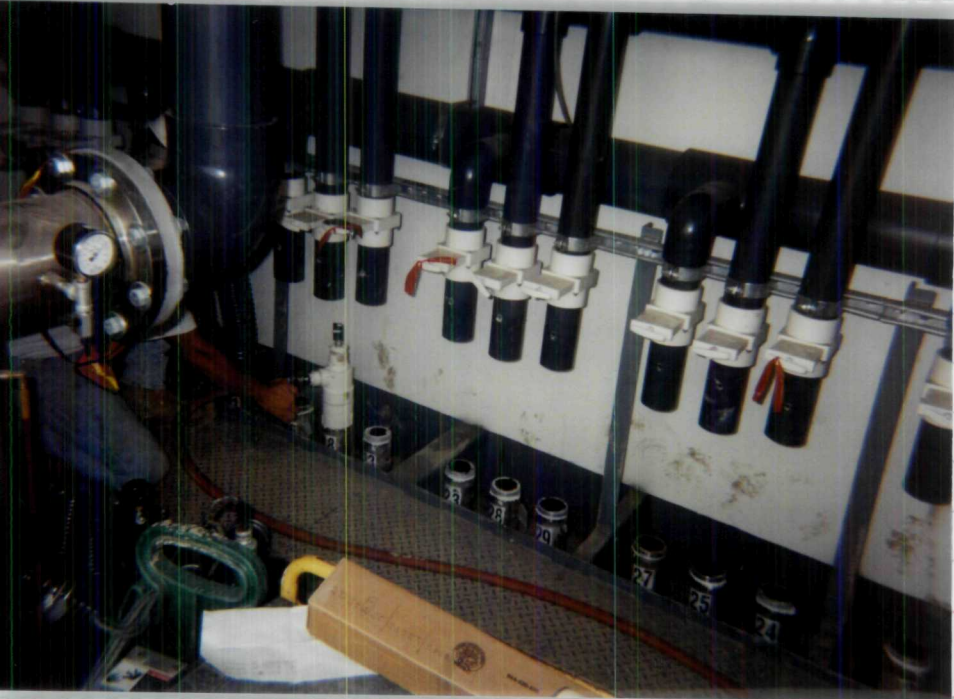
Proj. #: 46526

Roll: 24 Photo #10A

Date: 07-18-02 Time: 08:20

Photographer: Leigh Peters

Description: Photo facing north showing the access road from the ONCA to the OFCA ISVE well field for the PCB-contaminated sediment relocation.



Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #10B
 Date: 07-18-02 Time: 08:44
 Photographer: Leigh Peters
 Description: Photo facing northwest of HIS
 conducting pressure testing for SVE-18.

Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #11
 Date: 07-18-02 Time: 08:50
 Photographer: Leigh Peters
 Description: Photo facing north showing MWH and
 HIS replacing gate valve at SVE-14.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #12

Date: 07-18-02 Time: 09:15

Photographer: Leigh Peters

Description: Photo facing southwest at ground showing HIS tightening yard piping flange to the saddle at SVE-15 with torque wrench.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #13

Date: 07-23-02 Time: 07:35

Photographer: Leigh Peters

Description: Photo facing west showing MEI removing the interim OFCA clay cover from the western portion of swale 5.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #14

Date: 07-23-02 Time: 07:50

Photographer: Leigh Peters

Description: Photo facing north showing MEI placing geotextile and gravel for temporary road access between the ONCA and the OFCA.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #15

Date: 07-23-02 Time: 08:40

Photographer: Leigh Peters

Description: Photo facing north showing the steel conduit that was bent by the MEI bulldozer.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #16

Date: 07-23-02 Time: 09:15

Photographer: Leigh Peters

Description: Photo facing northwest showing MEI loading the PCB-contaminated sediment for relocation to the OFCA swale 5.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #17

Date: 07-23-2002 Time: 09:30

Photographer: Leigh Peters

Description: Photo facing east showing MEI unloading PCB-impacted sediment into swale 5, immediately east of the land bridge.



Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #18
 Date: 07-23-2002 Time: 12:45
 Photographer: Leigh Peters
 Description: Photo facing southeast showing MWH
 staking elevations for the PCB-
 contaminated sediments.



Site: American Chemical Services, Inc.
 Proj. #: 46526
 Roll: 24 Photo #19
 Date: 07-23-2002 Time: 13:20
 Photographer: Leigh Peters
 Description: Photo facing west of MEI loading PCB-
 contaminated sediments from the ONCA
 firepond area.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #20

Date: 07-25-2002 Time: 07:45

Photographer: Leigh Peters

Description: Photo facing west of MEI compacting and unloading PCB-contaminated sediments into the western portion of swale 5.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 24 Photo #21

Date: 07-25-2002 Time: 07:50

Photographer: Leigh Peters

Description: Photo facing east of PCB-contaminated sediments compacted in the eastern portion of swale 5.